

CLAIMS

1. An EL device, comprising:

a substrate;
a first electrode layer formed on a surface of the substrate;
a light emitting layer formed on the first electrode layer;
and
a second electrode layer formed on the light emitting layer,
the surface of the substrate having irregularities formed thereon, at least one of the layers formed on the surface of the substrate having irregularities formed on a surface thereof which is in contact with the layer on a side of the substrate.

2. An EL device according to claim 1, wherein the at least one of the layers is formed in a substantially uniform thickness.

3. An EL device according to claim 1, wherein the at least one of the layers has a curved shape conforming to the surface of the substrate on which the irregularities are formed.

4. An EL device according to claim 1, wherein the light emitting layer has a curved shape conforming to the surface of the substrate on which the irregularities are formed.

5. An EL device according to claim 1, wherein one of the first electrode layer and the second electrode layer opposite to a light taking-out side with respect to the light emitting layer is formed of a reflective electrode and the other is formed of a transparent electrode, and the reflective electrode has a curved shape conforming to the surface of the substrate on which the irregularities are formed.

6. An EL device according to claim 1, wherein the surface of the substrate on which the irregularities are formed is an irregularity surface on which a concave portion and a convex portion are formed at random.

7. An EL device according to claim 1, further comprising at least one prism sheet disposed on a light taking-out side with respect to the light emitting layer.

8. An EL device according to claim 7, wherein the at least one prism sheet has a plurality of linear convex portions disposed in parallel to each other, each of the linear convex portions being sharply pointed to have a triangular shape in cross section.

9. An EL device according to claim 8, wherein two prism sheets are overlapped and disposed so that extending directions of the linear convex portions intersect each other.

10. A method of manufacturing an EL device, comprising:
forming irregularities on a surface of a substrate;
forming a first electrode layer on the surface of the substrate;
forming a light emitting layer on a surface of the first electrode layer; and
forming a second electrode layer on a surface of the light emitting layer,
at least one of the layers formed on the surface of the substrate having irregularities formed on a surface thereof which is in contact with the layer on a side of the substrate.

11. A method of manufacturing an EL device according to claim 10,

wherein one of the first electrode layer and the second electrode layer opposite to a light taking-out side with respect to the light emitting layer is formed of a reflective electrode and the other is formed of a transparent electrode, and the reflective electrode has a curved shape conforming to the surface of the substrate on which the irregularities are formed.

12. A method of manufacturing an EL device according to claim 10, wherein the at least one of the layers includes the light emitting layer.

13. A liquid crystal display device comprising the EL device according to claim 1 used for a backlight.